Program	House	Senate	Conference
Nuclear Energy-Energy Supply \$557.574M 270 - \$420.201M 050 - \$137.373M	The Committee recommendation for nuclear energy programs under the Energy Supply and Conservation appropriation is \$377,701,000, a decrease of \$12,205,000 below the budget request. This net decrease reflects the Committee's recommendation to shift the responsibility for U-233 disposition at Oak Ridge from Nuclear Energy Programs to NNSA, a reduction of \$18,705,000, and a reduction of \$10,000,000 to Nuclear Power 2010. The Committee has provided an additional \$16,500,000 for increased programmatic activities for the Office of Nuclear Energy, as described below. Of the total funding of \$515,074,000 provided for Nuclear Energy programs and facilities, \$137,373,000 represents costs allocated to the 050 budget function (i.e., defense activities.) These defense-related costs, which include \$3,003,000 representing the security charges for reimbursable work, and are funded under the Other Defense Activities and Naval Reactors accounts. Within the total amount provided, \$3,000,000 is for the transfer and implementation of nuclear safety technologies in Lithuania.	The Committee recommendation provides \$449,906,000 for nuclear energy, an increase of \$60,000,000 above the request.	The conference agreement provides a total of \$557,574,000 for nuclear energy programs. The Office of Nuclear Energy, Science and Technology is the lead office with landlord responsibilities for the Idaho site. Because this site provides considerable support to defense activities and naval nuclear reactors, \$123,873,000 of costs is allocated to Other Defense Activities and \$13,500,000 is allocated to Naval Reactors. Both programs are in the 050 budget function. Congressionally directed projects- Transfer of Nuclear Safety Technologies in Lithuania 3,000,000.

Program	House	Senate	Conference
University Reactor Fuel Assistance and Support \$27.000M	The Committee recommends \$24,000,000, the same as the budget request. The Committee continues to support DOE's programs to sustain existing university reactors and provide grants and fellowships that support nuclear science and engineering education.	The Committee recommends \$24,000,000 for university reactor fuel assistance and support. The Committee recommends \$4,500,000 from within available funds for the Institute of Nuclear Science and Engineering at the Idaho National Laboratory. University nuclear engineering progra ms and university research reactors represent a fundamental and key capability in supporting our national policy goals in health physics, materials science and energy technology. The Committee strongly supports the University Reactor Fuel Assistance and Support program's efforts to provide fellowships, scholarships, and grants to students enrolled in nuclear energy, science and engineering programs and related areas like health physics at U.S. universities, as well as efforts to provide fuel assistance and reactor upgrade funding for university-owned research reactors. The Committee remains concerned about the ability of the Nation to respond to the growing demand for trained experts in nuclear science and technology in the face of financial and other challenges affecting engineering programs and research reactor facilities at American universities. The Committee strongly endorses the administration's commitment to cooperate with the People's Republic of China in its expansion of nuclear power. The Committee believes that the deployment of advanced U.S. reactor technology is critical to meet the growing energy demands in China and to contribute to improved air quality.	The conference agreement includes \$27,000,000. The conferees support the inclusion of the Institute of Nuclear Science and Engineering at Idaho National Laboratory in this program.

House	Senate	Conference
	The Committee strongly supports the NERI	
	Advisors on Science and Technology	
	[PCAST] that addresses energy research, the	
	-	
	maintain the existing, stand-alone NERI	
	program that provides funding to peer-	
	reviewed projects proposed by national	
	laboratories, universities and industry on	
	issues facing the nuclear energy industry. As	
	provided in the PCAST report, research	
	topics should include research into	
	developing a proliferation resistant fuel	
	cycle, improvements to reactor designs of	
	new and existing designs, increased	
	efficiency, as well as better knowledge of	
	materials and fuel characteristics to support	
	the Next Generation Nuclear Plant and	
	Generation IV programs. The Committee is	
	aware that the budget proposes to merge the	
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	• 0	
	House	The Committee strongly supports the NERI program. Consistent with the goals of the November 1997 President's Committee of Advisors on Science and Technology [PCAST] that addresses energy research, the Committee directs the Department to maintain the existing, stand-alone NERI program that provides funding to peerreviewed projects proposed by national laboratories, universities and industry on issues facing the nuclear energy industry. As provided in the PCAST report, research topics should include research into developing a proliferation resistant fuel cycle, improvements to reactor designs of new and existing designs, increased efficiency, as well as better knowledge of materials and fuel characteristics to support the Next Generation Nuclear Plant and

Program	House	Senate	Conference
Nuclear Power 2010 \$66.000M	The Committee provides \$46,000,000 for Nuclear Power 2010, a decrease of \$10,000,000 from the budget request.	The recommendation includes \$76,000,000 for nuclear power 2010. The Department is directed to focus the resources on the demonstration of the regulatory licensing processes of 10 CFR Part 52 for early site permits, design certifications, and combined construction and operating licenses. This is to be cost-shared with industrial and governmental entities. The Committee recommendation supports demonstration of key regulatory approval processes in order to encourage the deployment of new, advanced nuclear plants in the Unites States by the 2010 timeframe. The strong industry response to the Department's request for proposals for a Combined Operating License is a turning point in the future of nuclear energy in the country and presents the Department with a unique opportunity to facilitate the deployment of one or more new nuclear plants in a generation. Support for such a program is critical in order to diversity our electric generation fuel supply with the added benefit of not producing any greenhouse gas emissions.	

Program	House	Senate	Conference
Generation IV	The Committee	The recommendation includes \$60,000,000 for the Generation IV nuclear	The conferees provide
Nuclear Energy	supports the	energy systems initiative, an increase of \$15,000,000 over the request.	\$55,000,000, of which
Systems	Department's	The Committee directs \$40,000,000 to be used for the Next	\$40,000,000 is provided
\$55.000M	collaborative	Generation Nuclear Plant [NGNP] program. Prior to the submission	for the Next Generation
	efforts on the	of this budget the Office of Nuclear Energy had worked expeditiously on	Nuclear Power Plant
	research and	a process to select a reactor design from a competitive solicitation in	program. Within available
	development of a	order to deploy and test the design at the Idaho National Laboratory	funds, \$4,000,000 is
	Generation IV	where it will serve as a test bed for electric and hydrogen cogeneration.	provided for the
	reactor design that	The Department had received a strong response to the expression of	development of multiple
	will be safer, more	interest and was preparing a request for proposal. Unfortunately, the	high temperature fuel
	cost effective, and	current budget recommendation fails to adequately support the Next	fabrication techniques in
	more proliferation	Generation Nuclear Plant. The Committee is concerned that the	support of the Generation
	resistant than	administration's strategy of collaborative international research lacks	IV Nuclear Energy
	current designs.	sufficient focus and doesn't support a specific schedule to facilitate the	Systems.
	The Committee	construction of a next generation reactor at the Idaho National Lab. The	
	recommends a total	Generation IV budget should be used as an initiative to build and	
	of \$45,000,000 for	demonstrate new technologies and rebuild U.S. nuclear capabilities as	
	Generation IV	opposed to the current proposal of indefinite research.	
	Nuclear Energy		
	Systems, the same	This funding shall be used to support a design competition conducted by	
	as the budget	DOE as well as fund R&D efforts linked to the NGNP program. The	
	request and an	Committee urges the Department to complete the competition by the	
	increase of	end of fiscal year 2006. The Committee expects the Department to	
	\$5,320,000 over	submit a budget for fiscal year 2007 that will fund a pre-engineering	
	the fiscal year 2005	design that is consistent with the goal of testing hydrogen production	
	enacted level.	or electricity generation by 2017 at the Idaho National Laboratory.	
	Within available	The Committee encourages the Department to give priority consideration	
	funds, \$1,000,000	to fast spectrum technologies. Coupled with efforts of the Advanced	
	is made available	Fuel Cycle initiative, research in this program must keep nonproliferation	
	for work on high	as a primary objective to reduce the amount of plutonium and other high	
	temperature fuel	level wastes that are a by-product of current technology. The Committee	
	fabrication	also recognizes that new advances in materials and fuels must be	
	techniques in	developed before these technologies can be deployed. In addition, the	
	support of the	Department shall develop a R&D road map by which the	
	Generation IV	Department identifies the current technical challenges, proposes a	
	Nuclear Energy	research and development plan to resolve existing fast spectrum	
	Systems under the	challenges within the Generation IV program, and downselects to no	
	direction of Idaho	more than two technologies by the end of fiscal year 2007. The	
	National	Department shall provide a copy of the Generation IV R&D	
	Laboratory (INL).	roadmap to the Committee by the end of fiscal year 2006.	
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	The Committee remains interested in the potential use and application of small modular reactors that would be inherently safe, be relatively cost effective, contain intrinsic design features which would deter sabotage or diversion, require infrequent refuelings, and be primarily factory			
	constructed and deliverable to remote sites. The Committee is			
	particularly interested in design of a small modular fast reactor that can serve as both a test bed for small commercial reactors and to test fast			
	spectrum technologies. Within available funds, \$5,000,000 is provided			
	for the development of high temperature fuel fabrication capabilities			
	in Virginia, in support of the Generations IV program, under the			
	direction of the Idaho National Laboratory.			

Program	House	Senate	Conference
Nuclear Hydrogen Initiative \$25.000M	The Committee provides \$20,000,000 for the nuclear hydrogen initiative, the same as the budget request. The Committee expects the Department to meet the requirements of the Hydrogen Future Act of 1996 (P.L. 104-271) for competition and industry cost sharing, and expects the Office of Nuclear Energy, Science and Technology to coordinate the nuclear hydrogen initiative fully with the other hydrogen research being conducted by the Office of Science and the Office of Energy Efficiency and Renewable Energy.	The Committee recommendation includes \$30,000,000, an increase of \$10,000,000. The Committee provides an additional \$7,000,000 above the budget request for the Nuclear Hydrogen Initiative to accelerate essential materials research and development and component design, test and evaluation for implementing the high temperature sulfur-iodine water spitting process for hydrogen production necessary to the advanced reactor hydrogen co-generation project at the Idaho National Laboratory. In addition, the Department is directed to establish a 5-year Cooperative Agreement with the UNLV Research Foundation for advanced Nuclear Hydrogen Initiative materials research and development.	The conferees provide \$25,000,000 for the Nuclear Hydrogen Initiative. The conferees provide an additional \$5,000,000 over the request to accelerate essential materials research and development and component design, test and evaluation for implementing the high temperature sulfuriodine water splitting process for hydrogen production necessary to the advanced reactor hydrogen co-generation project at Idaho National Laboratory.

Program	House	Senate	Conference
Spent Fuel	As mentioned previously in this report, the Committee directs the Department to		
Recycling	conduct a new Spent Fuel Recycling Initiative, which has linked elements in		
Initiative	both the Nuclear Energy and Nuclear Waste Disposal accounts. One part of this		
	initiative requires the Department to begin to move existing spent nuclear fuel		
	away from commercial reactor sites to centralized interim storage at one or more		
	DOE sites. This task is the responsibility of the Office of Civilian Radioactive		
	Waste Management, and funding and direction are provided under the Nuclear		
	Waste Disposal account. The other part of this initiative deals with developing a		
	new strategy for managing future spent fuel, which is the responsibility of the		
	Office of Nuclear Energy, Science and Technology within the Energy Supply		
	and Conservation account.		
	Up until the mid-1970s, the Federal government encouraged the reprocessing of		
	commercial spent fuel in the United States, and commercial reprocessing		
	facilities were developed at Morris (IL), West Valley (NY), and Barnwell (SC).		
	Only the West Valley facility was ever operated, and it reprocessed both		
	commercial and defense spent fuel. In the late 1970s, the United States decided		
	to suspend commercial reprocessing efforts, primarily due to non-proliferation		
	concerns that separated plutonium could be diverted to produce illicit nuclear		
	weapons. Spent nuclear fuel, which contains a small percentage of plutonium		
	created during the fission reaction, was considered to be inherently self-		
	protecting because its high radiation levels would prevent its diversion to other		
	purposes. Therefore, as long as it was not reprocessed, spent nuclear fuel was no		
	considered to pose a significant proliferation risk. The U.S. ban on reprocessing		
	was lifted in the 1980s, but economics did not support the reprocessing of		
	commercial spent nuclear fuel at that time, especially in light of the lack of new		
	nuclear plant orders and cancellation of existing orders after the Three Mile Island accident in 1979.		
	Since the 1970s, U.S. policy on spent nuclear fuel has been to utilize the once-		
	through fuel cycle and to store the spent fuel at reactor sites until it can be sent to		
	the repository for permanent geologic disposal, without recycling the spent fuel.		
	By the year 2005, however, several key conditions have changed significantly.		
	A number of European countries are using existing reprocessing capabilities to		
	recycle spent fuel in a safe and secure manner using the chemical reprocessing		
	technology known as PUREX. There is no evidence that these reprocessing		
	operations pose a significant proliferation risk. In part, the proliferation risk is		
	manageable and acceptable because these countries recycle as they go, so that		
	spent fuel is reprocessed and then promptly made into new mixed oxide fuel.		
	These countries also vitrify the high-level waste promptly, avoiding the		
	problems that the U.S. has encountered with storing large volumes of liquid		
	high-level radioactive waste. New reprocessing technologies are becoming		
	available that reduce the volume, toxicity, and fissile material content of the		
	material requiring disposal in a permanent repository. New separation and		
	reprocessing technologies may avoid the problems caused by separated		

plutonium and will produce smaller waste streams of high-level radioactive waste. Lastly, the theft or diversion of weapons-grade nuclear materials (i.e., plutonium and highly-enrichment uranium) is no longer the only nuclear-related security concern. After the terrorist attacks of September 11, 2001, there are serious concerns about the potential for using spent nuclear fuel to create a "dirty bomb" to spread radioactive contamination over a large area. Spent nuclear fuel is currently stored at 72 commercial reactor sites in 33 States, as well as at a number of other DOE and commercial storage sites. The utilities and the Federal government spent a significant amount of money securing this spent fuel. While some onsite storage of spent fuel is necessary while the spent fuel cools, and more extensive onsite storage may be a manageable security risk, the large-scale and long-term storage of spent fuel at reactor sites is nevertheless an expensive and unnecessary risk. These security costs are making the oncethrough fuel cycle progressively more expensive. Common sense dictates that these materials would be better stored in fewer, centralized interim storage facilities in remote locations, away from population centers and water supplies. Although reprocessed mixed oxide reactor fuel is presently more costly than fresh uranium oxide fuel, the price of uranium has been rising in recent years. Also, there is not a life-cycle comparison that reflects the added costs for onsite storage of once-through spent fuel, the extended life of the repository up to 300,000 years (in accordance with the court-ordered review of the radiation standard), and the estimated \$1 billion per year cost for delay in opening the Yucca Mountain repository.

Shifting away from a once-through fuel cycle to a recycling approach does not eliminate the need for a geologic repository for future spent fuel disposal, because significant quantities of high-level waste that will require long-term geologic isolation will remain. However, recycling via advanced reprocessing technologies can reduce the volume of such high-level waste substantially. Such a volume reduction could obviate the need to expand Yucca or site a second repository in the near future. Reprocessing can also reduce the radiotoxicity of the waste products, making a repository a simpler proposition to license. Also, by vitrifying the high-level waste into glass cylinders, the long-term protection comes from the properties of the glass itself, lessening the reliance on metal containers for long-term isolation of spent fuel. A shift to recycling our nuclear reactor fuel will reduce the Nation's dependence on foreign sources of fuel for present and planned future reactors, and the construction of new reactors can reduce the Nation's dependence on imported fossil fuels.

Therefore, the Committee directs the Office of Nuclear Energy, Science and Technology to focus its research under the Advanced Fuel Cycle Initiative to develop advanced reprocessing and transmutation technologies that will improve upon the existing PUREX process. The Department shall accelerate this research in order to make a specific technology recommendation, not later than the end of fiscal year 2007, to the President and Congress on a particular reprocessing technology that should be

implemented in the United States. In addition, the Department shall	
prepare an integrated spent fuel recycling plan for implementation	
beginning in fiscal year 2007, including recommendation of an advanced	
reprocessing technology and a competitive process to select one or more sites to	
develop integrated spent fuel recycling facilities (i.e., reprocessing, preparation	
of mixed oxide fuel, vitrification of high level waste products, and temporary	
process storage). Some of the DOE sites would seem obvious candidates for	
such facilities, but there may also be interest from some States and other entities	
to host such facilities.	

Program	House	Senate	Conference
AFCI	The Committee	The Committee recommendation includes \$85,000,000, an	The conferees provide
\$80.000M	recommendation for the	increase of \$15,000,000 over the budget request. The	\$80,000,000 for the Advanced
	Advanced Fuel Cycle	initiative should continue to focus on development of fuel	Fuel Cycle Initiative (AFCI),
	Initiative (AFCI) is	cycle technologies that minimize the toxicity of final waste	\$10,000,000 over the request.
	\$75,500,000, an	products resulting from spent fuel while recovering energy	The additional funds are
	increase of \$8,044,000	remaining in spent fuel; minimize proliferation concerns and	to be used to accelerate the
	over the current year	environmental impacts of the fuel cycle and minimize the	design activities associated with
	and \$5,500,000 more	number of reprocessing steps so as to minimize system costs.	a proposed Engineering Scale
	than the budget request.	The initiative shall assist the Secretary with development of	Demonstration (ESD). This
	The additional funds	alternative technology options.	funding will allow completion of
	are to be used to	Based on the success learned at the Savannah River	the conceptual design in fiscal
	accelerate the	Technology center of the Uranium Extraction Technology,	year 2006 and enable pre -
	development and	known as UREX in 2002, the Committee expects the	engineering design to commence
	selection of a	Department to expand its efforts to advance research of	in fiscal year 2007. The
	separations technology	aqueous spent fuel treatment and to begin the engineering	conferees direct the Department
	no later than the end of	scale demonstrations. The Committee recommends an	to accelerate the development of
	the fiscal year 2007 that	additional \$10,000,000 to accelerate the design activities	a separations technology that
	can address the current	associated with a proposed Engineering Scale	can address the current
	inventories of	Demonstration [ESD]. The ESD will provide the United	inventories of commercial spent
	commercial spent	States with the capability to conduct research and	nuclear fuel and select the
	nuclear fuel, and	development into advanced spent fuel separations and	preferred technology no later
	prepare an integrated	transmutation from laboratory scale through engineering scale	than the end of fiscal year 2007.
	spent nuclear fuel	prior to commercial deployment. The budget request	The conferees direct the
	recycling plan. The	provided funds for pre-conceptual design activities only. This	Department to submit the
	Committee directs the	funding will allow completion of the conceptual design in	spent nuclear fuel recycling
	Department to submit	fiscal year 2006 and enable preengineering design to	technology plan to the House
	the integrated spent	commence in fiscal year 2007. In addition to studying light	and Senate Committees on
	nuclear fuel recycling	water reactors, the Committee expects the Department to	Appropriations by March 1,
	plan to the House and	evaluate fast reactors that are capable of destroying larger	2006.
	Senate Committees on	amounts of long-lived radioactive material.	Donostino monimum of The
	Appropriations by	To provide confidence in the technology options proposed, the	Reporting requirementThe
	January 31, 2007.	project will use Department of Energy national laboratory and university expertise to perform research and development of	conferees direct the
			Department to submit to the House and Senate Committees
		advanced technologies for spent fuel treatment and	
		transmutation of plutonium, higher actinides and long-lived fission products. Advanced nuclear material recycle and	on Appropriations a report on sodium bonded spent fuel, as
		safeguard technologies, proliferation-resistant nuclear fuels,	outlined in the Senate report,
		and transmutation systems shall be investigated. Both reactor-	no later than March 1, 2006.
		based and a combination of reactor and accelerator-based	no later than March 1, 2000.
		transmutation approaches may be included as part of the	Congressionally Directed
		research and systems analysis.	Projects-UNLV Research
		The project shall use international and university	Foundation 5-year cooperative
		collaborations to provide cost effective use of research	agreement to study deep burn-
		conaborations to provide cost effective use of research	agreement to study deep burn-

funding. The Committee has provided an additional \$6,000,000 to the Advanced Fuel Cycle Initiative for the UNLV Research Foundation and directs the Department to enter into a 5-year cooperative agreement to study deep burn-up of nuclear fuel and other fuel cycle research to eliminate the need for multiple spent nuclear fuel repositories, to eliminate weapons useable material from disposed spent fuel, and to maintain forever potential radiological releases from a repository below currently legislated limits.

The Committee is aware of the excellent recent progress in the iointly funded U.S/Russian program to develop the GT-MHR. The recent completion of the particle fuel fabrication and testing facilities in Russia along with continued progress in the area of the power conversion system indicates the continued support of the Russians for the development of this option. The Committee also notes that the GT-MHR is a leading Gen IV reactor type. Within the Advanced Fuel Cycle Initiative, \$3,000,000 is provided for the Idaho Accelerator Center and the Department is directed to enter into a 5-year cooperative agreement with IAC. The Department is provided \$7,000,000 to develop a Nuclear **Energy Materials Test Station at Los Alamos Neutron** Science Center to advance the technology needed to support the materials and fuel experiments required by the Advanced Fuel Cycle Initiative and for the exploration of Generation IV fast neutron spectrum systems. Since the closure of the Fast Flux Test Facility, resulting in no domestic fast neutron source for conducting actinide transmutation, the Materials Test Station will advance the development of improved fuel cycles that can reduce the quantity, heat generation and toxicity of spent nuclear fuel. The Committee recommendation includes \$1,000,000 for the Center for Materials Reliability and \$750,000 for nuclear transportation hazard research at the University of Nevada-Reno.

The Committee is aware of the fact that the Department is responsible for the maintenance of 62 metric tons of sodium bonded spent nuclear fuel located in Idaho. Of these amounts, the Office of Environmental Management manages 34 tons (55 percent of the total) from the Detroit Edison Fermi plant which is stored at the Idaho Nuclear Technology and Engineering Center. The remaining 28 tons (45 percent) is from the Experimental Breeder Reactor-II and is managed by the Office of Nuclear Energy, AFCI program. The AFCI

up of nuclear fuel and other fuel cycle research to eliminate the need for multiple spent nuclear fuel repositories, to eliminate we apons useable materials from disposed spent fuel, and to maintain forever potential radiological releases from a repository below currently legislated limits (NV)-\$5,000,000. Idaho Accelerator Center (ID)-\$2,000,000. Nuclear Energy **Materials Test Station at Los Alamos Neutron Science** Center (NM)-\$3,500,000. **University of Nevada Reno Center for Materials** Reliability (NV)-\$1,000,000. **Univ. of Nevada Reno Nuclear Trans portation Hazard** Research (NV)-\$750,000.

than March 1, 2006.

Program	House	Senate	Conference
Radiological Facilities Management \$54.595 M	The purpose of the Radiological Facilities Management program is to maintain the critical infrastructure necessary to support users from the defense, space, and medical communities. These users fund DOE's actual operational, production, and research activities on a reimbursable basis.	The Committee recommends \$64,800,000. The purpose of this program is to maintain the critical user facilities in a safe, environmentally compliant and cost- effective manner to support national priorities in serving our space missions or medical fields. Facilities located at Oak Ridge National Laboratory, Los Alamos, Sandia, Brookhaven and Idaho National Labs all support this mission. The Committee supports the ongoing efforts at Los Alamos National Laboratory. The Committee recommends the investment of \$1,300,000 in new equipment for Los Alamos National Lab and \$12,700,000 provided to operate the bench-scale scrap recovery line and to address the long-term storage and disposal of waste residues.	The purpose of the Radiological Facilities Management program is to maintain the critical infrastructure necessary to support users from the defense, space, and medical communities on a reimbursable basis. The conference agreement provides \$54,595,000 for this work.
Space and Defense Infrastructure \$39.700M	The Committee recommendation is \$39,700,000, an increase of \$8,500,000 over the budget request. This includes the requested amounts to operate radioisotope power systems at the Idaho National Laboratory (INL), maintain iridium capabilities at Oak Ridge National Laboratory, and maintain and operate the Pu-238 mission at Los Alamos. The Committee recognizes the need to make available additional floor space in TA-55 for pit production, and directs the Department to develop a strategy to relocate expeditiously the mission for Pu-238 processing from Los Alamos to Idaho National Laboratory. The Committee	The Committee recommendation is \$31,200,000, the same as the budget request.	The conferees provide \$39,700,000 for Space and Defense Infrastructure. This includes the requested amounts to operate radioisotope power systems at the Idaho National Laboratory (INL), maintain iridium capabilities at Oak Ridge National Laboratory, and maintain and operate the Pu-238 mission at Los Alamos. The conferees recognize the need to free up floor space in TA-55 for pit production, and direct the Department to develop a strategy to relocate expeditiously the mission for Pu-238 processing from Los Alamos to INL. The conferees provide an increase of \$8,500,000 for INL to plan and build the capability to assume the Pu-238 mission, so

Program	House	Senate	Conference
	provides an increase of \$8,500,000 for INL to plan and build the capability to assume the Pu-238 mission, avoiding a gap in capability during the mission transfer. The Committee directs the Department to provide a mid-year report by January 31, 2006, on the transfer strategy and associated costs.		there is no gap in capability during the mission transfer. The conferees direct the Department to provide a mid-year report by March 31, 2006, on the transfer strategy and associated costs.
Medical Isotope Infrastructure \$14.395M	The Committee recommendation is \$14,395,000, a reduction of \$18,705,000 from the budget request. The recommendation provides the requested amounts for Oak Ridge buildings 3047, 5500, 9204-3, the Calutron building at Y-12, isotope business management information, and for various facility costs at Brookhaven, Los Alamos, and Sandia national laboratories. The Committee provides no funding for the Medical Isotope Production and Building 3019 Complex Shutdown project. The committee has been skeptical since the onset of this project, skepticism which has been confirmed when the fiscal year 2006 budget justification data sheet reveals that costs for this project have increased by 3.5 times over the previous cost estimate. The Department acknowledges that this new increased estimate does not even include funding necessary to meet the latest security requirements for this facility. Therefore, the Committee directs the Department to terminate promptly the Medical Isotope Production and Building 3019 Complex Shutdown project, and directs the NNSA to retrieve the U-233	The Committee recommendation is \$33,100,000, the same as the budget request.	The conferees provide \$14,395,000 for Medical Isotopes Infrastructure. The conferees provide no funding for the Medical Isotope Production and Building 3019 Complex Shutdown project. The conferees direct the Department to terminate promptly the Medical Isotope Production and Building 3019 Complex Shutdown project. The responsibility for disposition of the U-233 is transferred to the Defense Environmental Management program per DOE's recommendation, and the conferees have provided funds in the Defense Environmental Management appropriation for disposition of the material stored in Building 3019.

Program	House	Senate	Conference
	material and put in into secure storage at a NNSA site.		
	One of the highest priorities for the		
	Committee is to ensure the swift and safe consolidation of special nuclear		
	materials at DOE sites. The		
	Committee expects the Office of		
	Nuclear Energy to work		
	cooperatively and effectively with the Office of Security and		
	Performance Assurance to		
	expeditiously achieve consolidation		
	goals, thereby limiting the number		
	of sites where the DOE holds and protects category I and II special		
	nuclear materials.		
Enrichment Facility Infrastructure \$.500K	The Committee recommendation includes the requested \$500,000 for	The Committee recommendation is \$500,000, the same as the budget	The conferees provide \$500,000 for Enrichment Facility Infrastructure.
ψ••ΟΟΙΧ	oversight of enrichment facilities at the	request.	Emiciment Facility infrastructure.
	Government-owned, USEC-operated	Î	
	gaseous diffusion plant at Puducah.		

Program	House	Senate	Conference
Idaho Facilities Management \$113.862M	This program funds the operations and construction activities at the Idaho National Laboratory (INL), including ANL-West and the Test Reactor Area. The Committee provides \$113,862,000 for Idaho Facilities Management, an increase of \$16,000,000 over the budget request. Of this total, \$82,600,000 is allotted to the 270 budget function and the balance, \$31,262,000, is allotted to the 050 function and funded under Other Defense Activities and Naval Reactors.	This program funds the site-wide landlord infrastructure activities for the Idaho National Laboratory. These activities are required to support the laboratory's technical efforts such as research on the Advanced Fuel Cycle Initiative, Generation IV nuclear energy systems, the Space and Defense Power Systems program, and the Navy's nuclear propulsion research and development program.	The conference agreement provides \$113,862,000 for Idaho National Laboratory (INL) operations and infrastructure. Of this total, \$82,600,000 is allotted to the 270 budget function and the balance, \$31,262,000, is allotted to the 050 function and funded under Other Defense Activities and Naval Reactors.
INL operations House \$69.145M (270) +17.762M (050) +13.500M from Naval Reactors (050) +2.500M utility corridor extension project (270) \$102.907M Total	The Committee recommendation provides the requested amount of funding, \$69,145,000 from function 270 Energy Supply, \$17,762,000 from Other Defense Activities, and an increase of \$13,500,000 from the Office of Naval Reactors to support the Idaho National Laboratory's Advanced Test Reactor (ATR). The increase is provided to maintain the current level of operations, make improvements, and implement the Long Range Operating Plan at the ATR. The Committee also provides an additional \$2,500,000 for the utility corridor extension project at the Idaho National Laboratory.	The Committee recommendation for these infrastructure activities is \$111,362,000. Of this total budget request \$80,100,000 is funded in the Energy Supply appropriation, which includes \$10,955,000 for construction activities. The Committee provides \$17,762,000 in the Other Defense Activities appropriation and \$13,500,000 to be transferred from Naval Reactors program to support the ATR Gas Loop.	The conferees provide \$102,907,000 for INL operations, \$69,145,000 from function 270 Energy Supply, \$17,762,000 from Other Defense Activities, and an increase of \$13,500,000 from the Office of Naval Reactors to support the Idaho National Laboratory's Advanced Test Reactor (ATR) life extension program. Congressionally Directed Project-the conferees also provide an additional \$2,500,000 for the utility corridor extension project at the Idaho National Laboratory.
INL Construction <u>House</u> Senate \$10.955M (270) \$10.955M (270)	The Committee recommends \$10,955,000 for Idaho facilities construction, the same as the budget request. This includes the requested amount for the Gas Test Loop in the Advanced Test Reactor.	The Committee recommendation is \$10,955,000 for construction activities, the same as the budget request.	The conferees provide \$10,955,000 for Idaho facilities construction. This includes the requested amounts for the Gas Test Loop in the Advanced Test Reactor.

Program	House	Senate	Conference
Program Direction \$30.006M (270) +31.103M (050) \$61.109M Total	The Committee recommends a total funding level for program direction of \$61,109,000, the same as the budget request and \$1,033,000 more than the current fiscal year. Of this amount, \$30,006,000 is funded in the Energy Supply appropriation under budget function 270, and \$31,103,000 is funded in the Other Defense Activities appropriation under budget function 050.	The Committee recommendation includes \$30,006,000 for program direction, the amount of the request. The Committee has also provided \$31,103,000 from Other Defense Activities.	The conference agreement includes \$61,109,000 for program direction. Of this amount, \$30,006,000 is funded in the Energy Supply appropriation under budget function 270, and \$31,103,000 is funded in the Other Defense Activities appropriation under budget function 050.

Program	House	Senate	Conference
Other Defense Activities at Idaho National Laboratory \$123.873M	The Committee recommendation includes \$123,873,000 to fund the defense-related (050 budget function) activities at the Idaho	The Committee recommendation includes \$123,873,000 to fund the defense-related activities at the Idaho National Laboratory	The conference agreement provides \$123,873,000 for defense-related activities at the
Idaho Facilities Management \$17.762M	National Laboratory (INL) and associated Idaho cleanup sites. This amount includes \$17,762,000 for	[INL] and associated Idaho cleanup sites. This amount includes \$17,762,000 for the INL	Idaho National Laboratory (INL) and associated Idaho cleanup sites.
Safeguards and Security \$75.008M	INL infrastructure, the same as the budget request, \$78,008,000 for Idaho site-wide safeguard and	infrastructure, the same as the budget request, \$75,008,000 for Idaho site-wide safeguards and	The conferees provide \$75,008,000 for Idaho sitewide safeguards and security as an 050
Program Direction \$31.103M	security, the same as the budget request; and \$31,103,000 for program direction to support Headquarters and Idaho Field Office personnel.	security, the same as the budget request; and \$31,103,000 for program direction to support headquarters and Idaho Field Office personnel.	Defense Activity under the Other Defense Activities account.

Program	House	Senate	Conference
Naval Reactors Transfer \$13.500M	The Committee recommendation is \$799,500,000, an increase of \$13,500,000 over the budget request. This additional amount is to be transferred to the Office of Nuclear Energy to support the Idaho National Laboratory's Advanced Test Reactor (ATR). The Committee's increase is provided to maintain the current level of operations and implement the Long Range Operation Plan at the ATR.	The Committee recommendation includes \$799,500,000, an increase of \$13,500,000 above the budget request. The increase is to be transferred to the Office of Nuclear Energy to support the Idaho National Laboratory's Advanced Test Reactor.	The conference agreement provides \$789,500,000 for Naval Reactors, an increase of \$3,500,000 over the budget request. The conferees agree to transfer \$13,500,000 to the Office of Nuclear Energy to support the Idaho National Laboratory's Advanced Test Reactor.